MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. ELUT **COURSE NUMBER: 2116**

NUMBER OF CREDITS: 2 **Lecture: 1 Lab: 1 OJT 0**

Course Title:
Reclosures and Protective Equipment

Catalog Description:
Reclosures and Protective Equipment covers reclosure testing, inspection and causes of malfunction. Fuse construction and coordination. Coordination scheme that provides system protection along with lightning arrestors, fault indicators and relays.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S)

☐Goal 1: Communication: By meeting the following competencies:
☐Goal 2: Critical Thinking: By meeting the following competencies:
☐Goal 3: Natural Sciences: By meeting the following competencies:
☐Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
☐Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
☐Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
☐Goal 7: Human Diversity: By meeting the following competencies:
☐Goal 8: Global Perspective: By meeting the following competencies:
☐Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
☐Goal 10: People and the Environment: By meeting the following competencies:

Topics to be Covered
Reclosures
Circuit breakers
Protective devices such as fuses, lightning arrests, cut-outs, sectionalizers and the related equipment
Troubleshooting in the field

Student Learning Outcomes
Demonstrate safety precautions, identify protective equipment, and simulate safe work practices

Describe control components
Describe an oil-level indicator and by-pass operations
Operate manual trip device
Calculate circuit coordination
Simulate downstream loads

Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: October, 2020